

ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THE ABOVE PLAN IS A TRUE AND CORRECT COPY OF THE ORIGINAL AS SUBMITTED TO THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 CHARLES J. CROVO SR. 4/17

DEVELOPER'S CERTIFICATE
 I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS AS ARE DEEMED NECESSARY.
 THE BRIGHTON GROUP 4-8-87 DATE

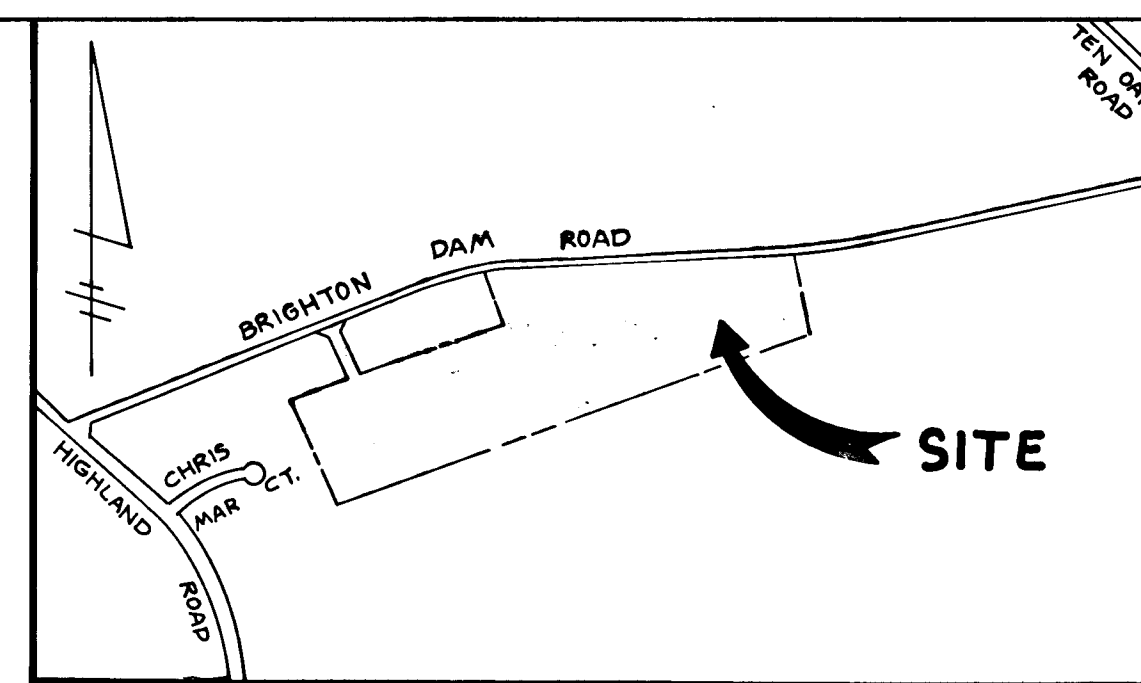
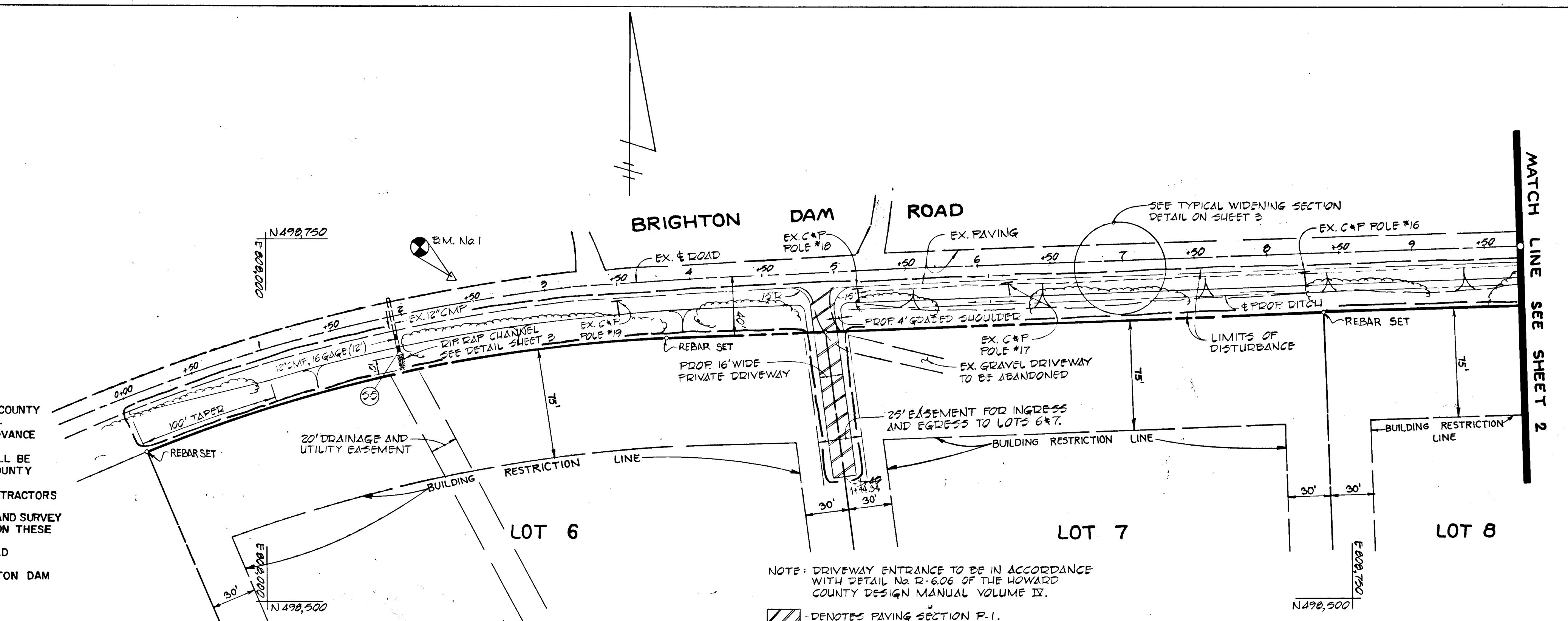
REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND METS TECHNICAL REQUIREMENTS
 James M. Nelson 9-9-87 DATE
 U.S. SOIL CONSERVATION SERVICE
 THIS DEVELOPMENT PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.
 Stephen A. Huber 9/9/87 DATE

- GENERAL NOTES**
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH HOWARD COUNTY STANDARDS, SPECIFICATIONS AND DETAILS FOR CONSTRUCTION.
 2. ALL UTILITY COMPANIES MUST BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CONSTRUCTION.
 3. STORM DRAINAGE TRENCHES WITHIN ROAD RIGHTS OF WAY SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH HOWARD COUNTY ROAD CODE.
 4. ANY DAMAGE TO PUBLIC RIGHTS OF WAY SHALL BE AT THE CONTRACTORS EXPENSE.
 5. CONTRACTOR TO NOTIFY THE HOWARD COUNTY INSPECTION AND SURVEY DIVISION AT LEAST 3 DAYS BEFORE STARTING WORK SHOWN ON THESE DRAWINGS. TELEPHONE # 782-7272
 6. RELOCATION OF ALL UTILITY POLES ALONG BRIGHTON DAM ROAD SHALL BE AT THE DEVELOPER'S EXPENSE
 7. PAVING SECTION FOR ANY FUTURE IMPROVEMENTS TO BRIGHTON DAM ROAD SHALL BE PAVING SECTION P-3.

APPROVED: OFFICE OF PLANNING AND ZONING
 [Signature] 9-10-87 DATE
 CHIEF, LAND DEVELOPMENT DIVISION

APPROVED: DEPARTMENT OF PUBLIC WORKS
 [Signature] 9/10/87 DATE
 CHIEF, BUREAU OF HIGHWAYS

APPROVED: [Signature] 9-22-87 DATE
 CHIEF, BUREAU OF ENGINEERING



VICINITY MAP
 SCALE: 1" = 1200'

BENCH MARK
 B.M. No. 1 ELEV. 496.68
 HQ. CO. CONTROL STATION 222300B-R

WATERFORD SECTION TWO LOTS 5-11
 5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

BRIGHTON DAM ROAD PLAN & PROFILE

OWNER AND DEVELOPER
 THE BRIGHTON GROUP
 SUITE 304
 5570 STERRETT PLACE
 COLUMBIA, MARYLAND 21044

SCALE AS SHOWN DATE APRIL 1987 DWG. NO. 1 OF 3
 DES. A.M. VITUCCI DRN. Z.Y. FISCH CHK. C.J. CROVO SR.

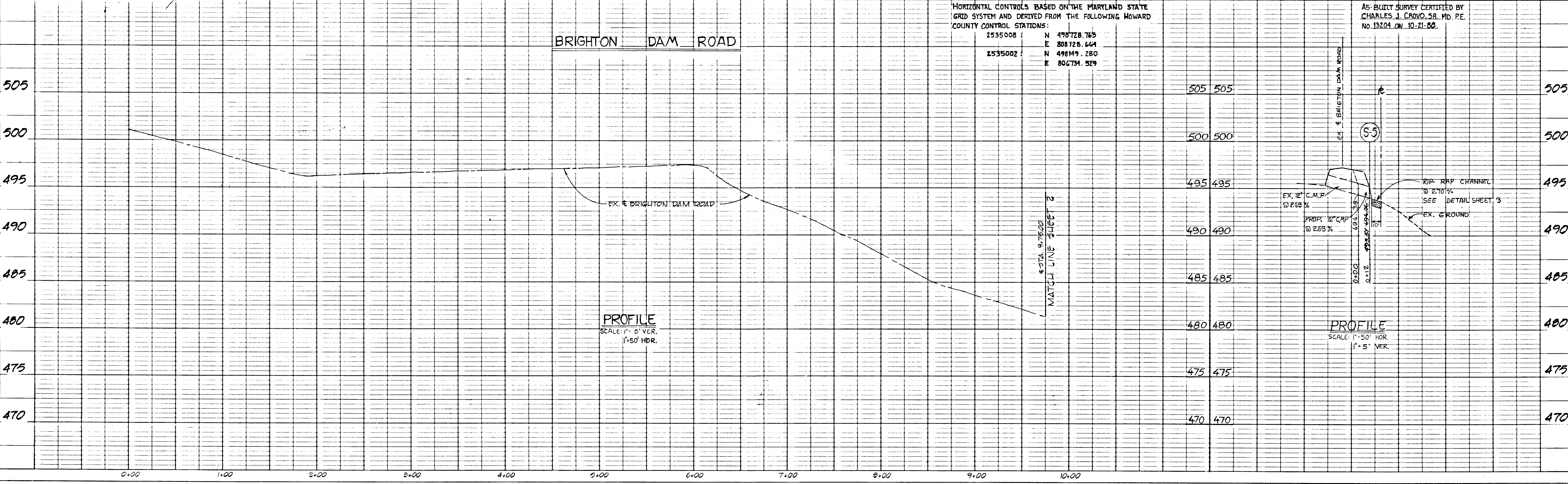
FISHER, COLLINS AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043

STATE OF MARYLAND
 CHARLES J. CROVO SR.
 19204
 CIVIL ENGINEER

HORIZONTAL CONTROLS BASED ON THE MARYLAND STATE GRID SYSTEM AND DERIVED FROM THE FOLLOWING HOWARD COUNTY CONTROL STATIONS:

2535008	N 476728.765
	E 808126.641
2535002	N 498149.280
	E 806734.529

AS-BUILT SURVEY CERTIFIED BY CHARLES J. CROVO SR. MD. PE. No. 19204 ON 10-21-88



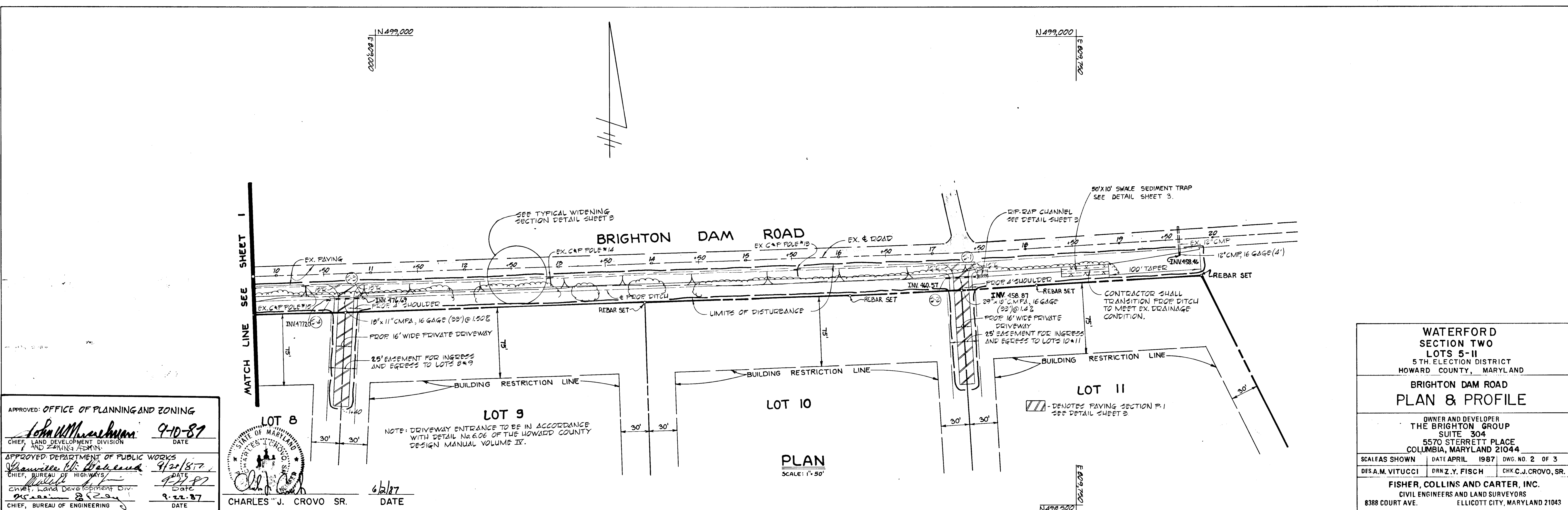
PLAN
 SURVEYED, ALIGNED, GRADES CHECKED, RT. OF WAY CHECKED.
 NOTE BOOK NO.

PROFILE
 SURVEYED, GRADES CHECKED, B.M.'S NOTED, STRUCTURE NOTATIONS CHECKED.
 NOTE BOOK NO.

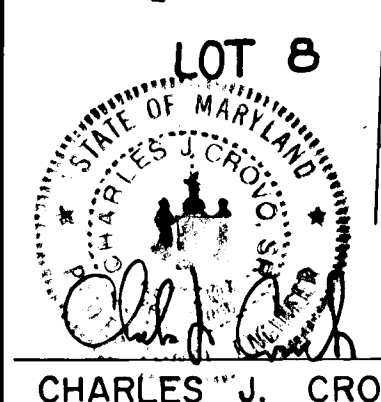
1267

DATE
BY
SURVEYED
ALIGNED CHECKED
RT. OF WAY CHECKED
NOTE BOOK NO.

DATE
BY
SURVEYED
PLOTTED
CHECKED
BY
NOTE BOOK NO.
STRUCTURE NOTATIONS CHECKED

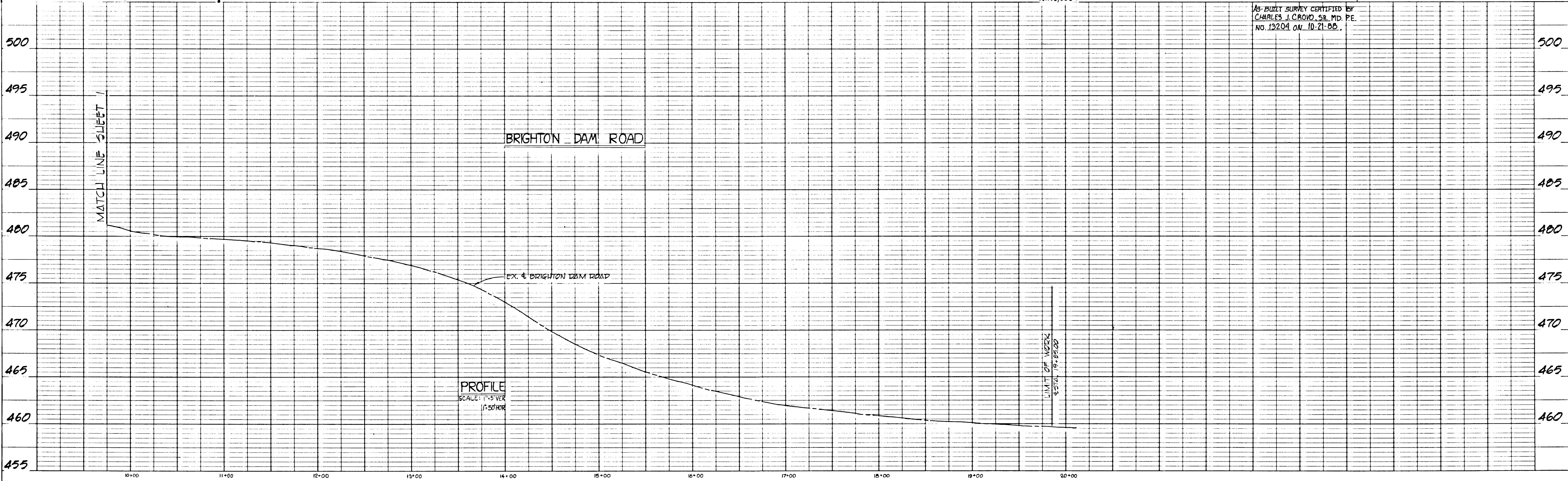


APPROVED: OFFICE OF PLANNING AND ZONING
John W. MacArthur 9-10-87
CHIEF, LAND DEVELOPMENT DIVISION AND ZONING ADMIN.
APPROVED: DEPARTMENT OF PUBLIC WORKS
Charles W. Howard 9-20-87
CHIEF, BUREAU OF HIGHWAYS
Charles J. Crovo Sr. 9-22-87
CHIEF, LAND DEVELOPMENT DIV.
CHIEF, BUREAU OF ENGINEERING



LOT 8
LOT 9
LOT 10
LOT 11
DATE 6/2/87
CHARLES J. CROVO SR.

WATERFORD SECTION TWO LOTS 5-II
5TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
BRIGHTON DAM ROAD
PLAN & PROFILE
OWNER AND DEVELOPER THE BRIGHTON GROUP SUITE 304 5570 STERRETT PLACE COLUMBIA, MARYLAND 21044
SCALE AS SHOWN DATE APRIL 1987 DWG. NO. 2 OF 3
DES. A.M. VITUCCI DRN. Z.Y. FISCH CHK. C.J. CROVO, SR.
FISHER, COLLINS AND CARTER, INC. CIVIL ENGINEERS AND LAND SURVEYORS 8388 COURT AVE. ELLICOTT CITY, MARYLAND 21043



1267

ENGINEER'S CERTIFICATE
 I HEREBY CERTIFY THAT THIS PLAN FOR EROSION AND SEDIMENT CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND THAT IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.
Chad Conrad 6/2/87
 SIGNATURE OF ENGINEER DATE

DEVELOPER'S CERTIFICATE
 "I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN OF DEVELOPMENT AND PLAN FOR EROSION AND SEDIMENT CONTROL AND THAT ALL RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF NATURAL RESOURCES APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT OR THEIR AUTHORIZED AGENTS, AS ARE DEEMED NECESSARY."
J.B. Sargent 4-8-87
 SIGNATURE OF DEVELOPER DATE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS.
James McArthur 9-9-87
 U.S. SOIL CONSERVATION DISTRICT DATE

THIS DEVELOPMENT IS APPROVED FOR EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.
William L. Ashby 9/9/87
 DISTRICT HOWARD SOIL CONSERVATION DISTRICT

APPROVED: OFFICE OF PLANNING AND ZONING
John W. Neachman 9-10-87
 CHIEF PLANNING AND ZONING DIVISION DATE

APPROVED: DEPARTMENT OF PUBLIC WORKS
 Chief, Bureau of Highways Date
Malcolm S. Jr. 9-21-87
 Chief, Land Development Div. Date
W. Lee 9-22-87
 Chief, Bureau of Engineering Date

PERMANENT SEEDING NOTES:
 APPLY TO GRADED OR CLEARED AREA NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS NEEDED.
 SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
 SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULE.

- 1) PREFERRED - APPLY 2 TONS PER ACRE DOLICITIC LIMESTONE (92 LBS/1000 SQUARE FEET) AND 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQUARE FEET) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS/1000 SQ. FT.).
- 2) ACCEPTABLE - APPLY 2 TONS PER ACRE DOLICITIC LIMESTONE (92 LBS/1000 SQ. FT.) AND 1000 LBS PER ACRE 10-10-10 FERTILIZER (23 LBS/1000 SQ. FT.) BEFORE SEEDING. HARROW OR DISC INTO UPPER THREE-INCHES OF SOIL.

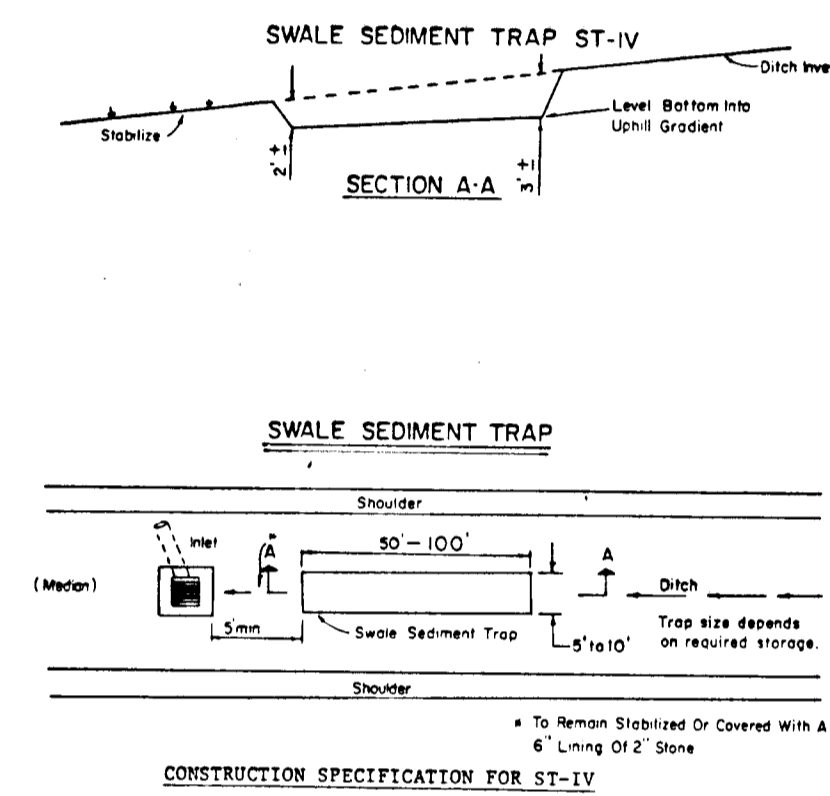
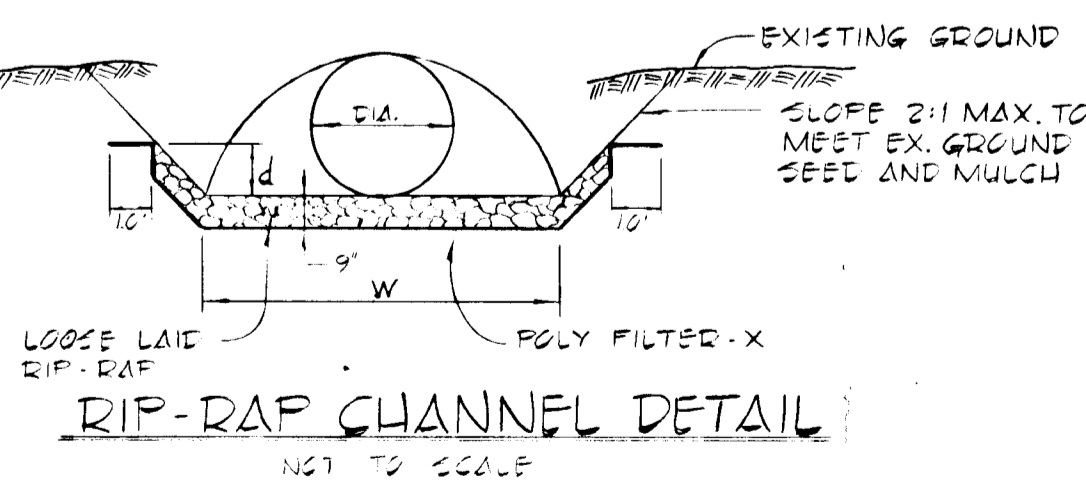
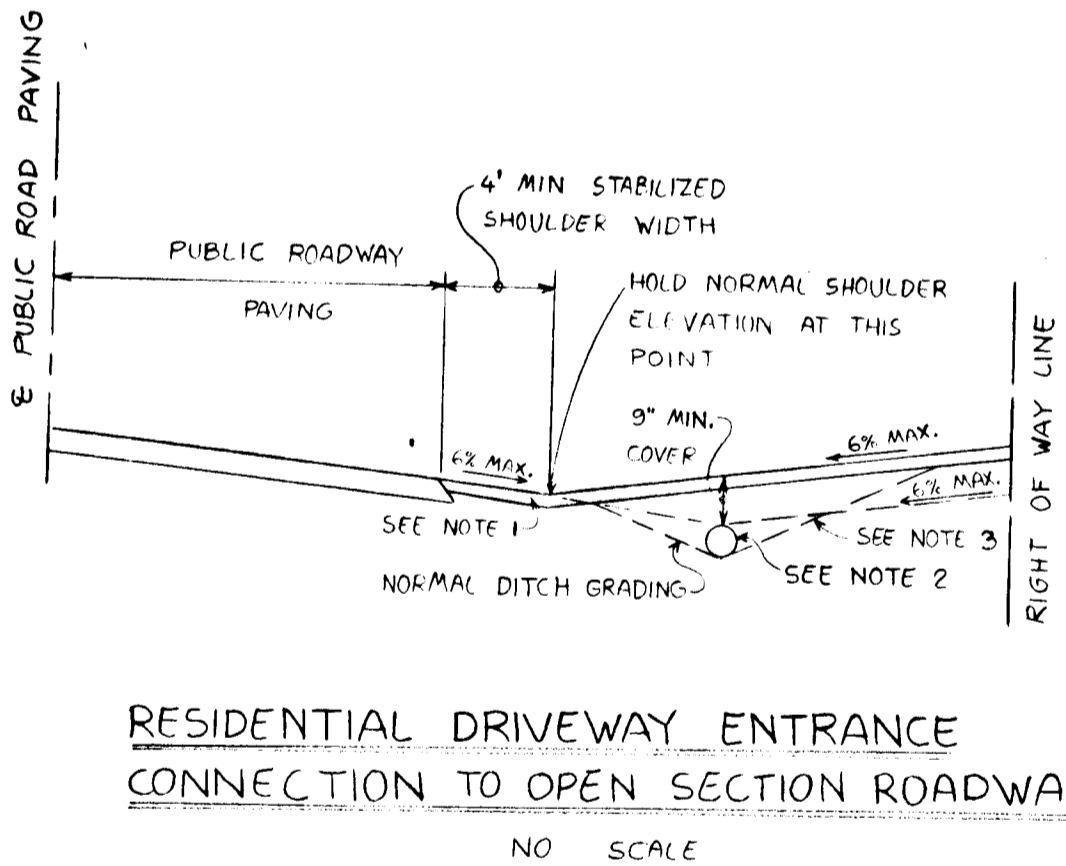
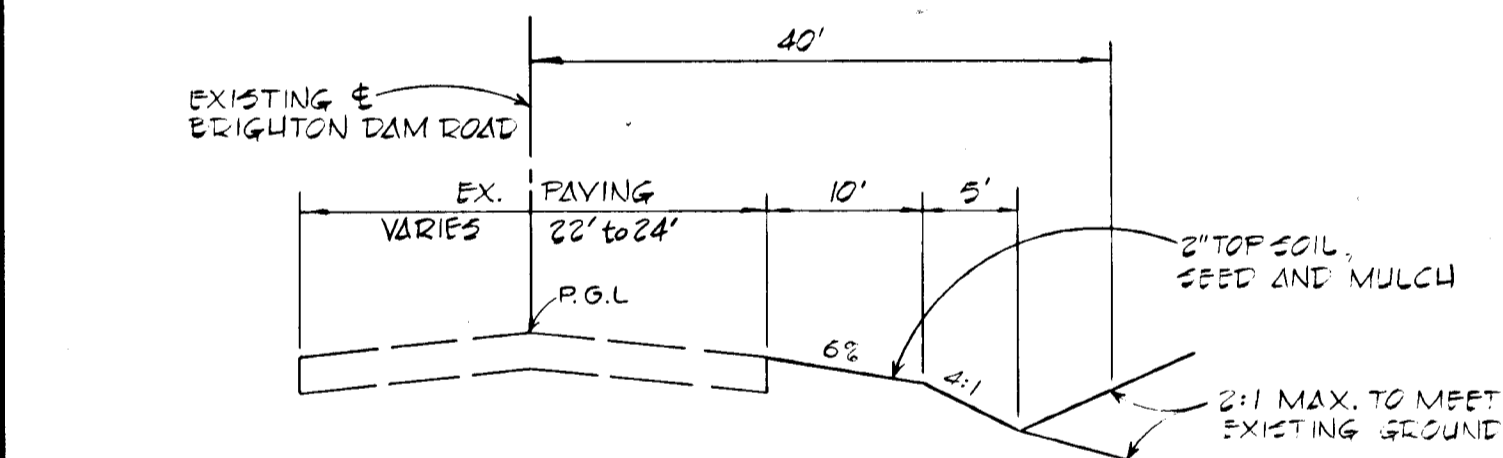
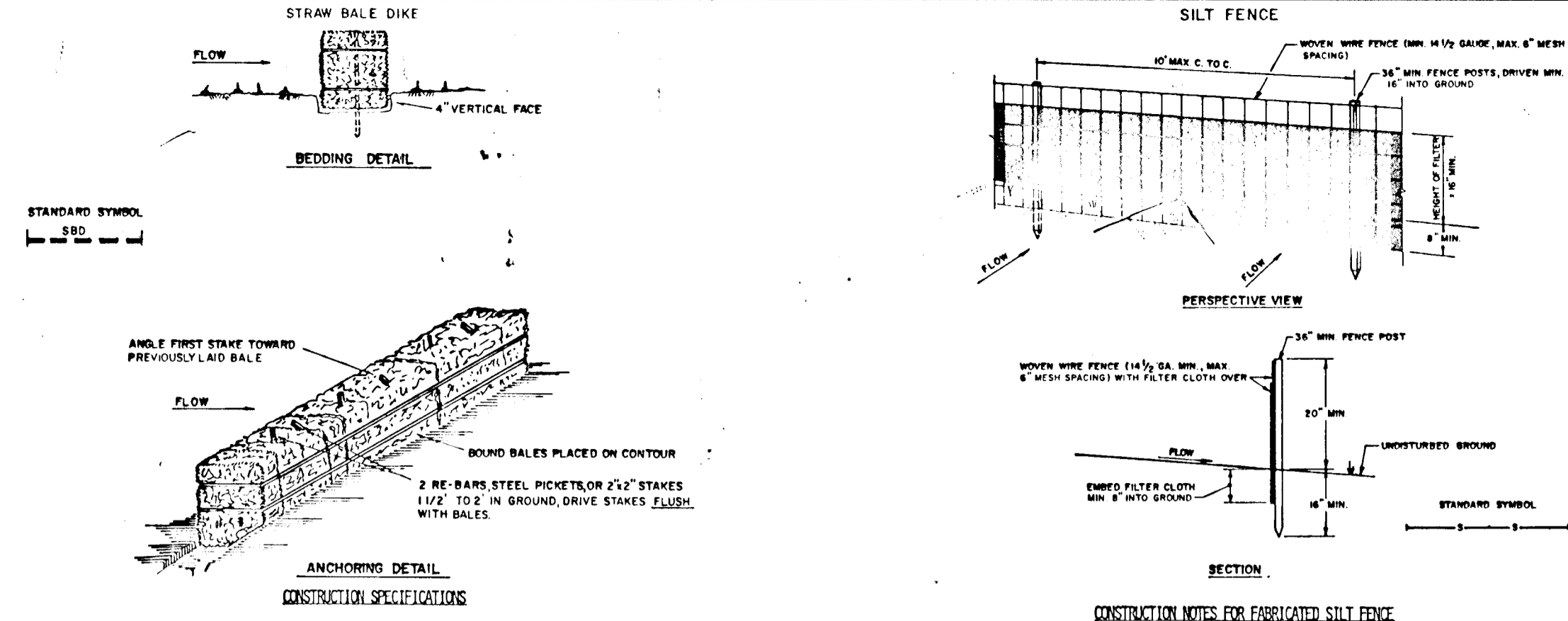
SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30, AND AUGUST 1 THRU OCTOBER 15, SEED WITH 60 LBS PER ACRE (1.4 LBS/1000 SQ. FT.) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THRU JULY 31, SEED WITH 60 LBS KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS PER ACRE (0.5 LBS/1000 SQ. FT.) OF WEEPING LOVEGRASS. DURING THE PERIOD OF OCTOBER 16 THRU FEBRUARY 28, PROTECT SITE BY: OPTION (1) 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING. OPTION (2) USE SOO. OPTION (3) SEED WITH 60 LBS/ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS/ACRE WELL ANCHORED STRAW.
 MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNKOTTLED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GALLONS PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
 MAINTENANCE: INSPECT ALL SEEDING AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS AND RESEEDINGS.

TEMPORARY SEEDING NOTES:
 APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTURBED WHERE A SHORT TERM VEGETATIVE COVER IS NEEDED.
 SEEDING PREPARATION: LOOSEN UPPER THREE-INCHES OF SOIL BY RAKING, DISCING OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.
 SOIL AMENDMENTS: APPLY 600 LBS PER ACRE 10-10-10 FERTILIZER (14 LBS/1000 SQ. FT.).
 SEEDING: FOR PERIODS MARCH 1 THRU APRIL 30 AND FROM AUGUST 15 THRU NOVEMBER 15, SEED WITH 24 BUSHEL PER ACRE OF ANNUAL RYE (3.2 LBS/1000 SQ. FT.). FOR THE PERIOD MAY 1 THRU AUGUST 14, SEED WITH 3 LBS PER ACRE OF WEEPING LOVEGRASS (0.7 LBS/1000 SQ. FT.). FOR THE PERIOD NOVEMBER 16 THRU FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING, OR USE SOO.
 MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS/1000 SQ. FT.) OF UNKOTTLED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GAL/1000 SQ. FT.) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FT. OR HIGHER, USE 348 GAL PER ACRE (8 GAL/1000 SQ. FT.) FOR ANCHORING.
 REFER TO THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED.

SEDIMENT CONTROL NOTES:

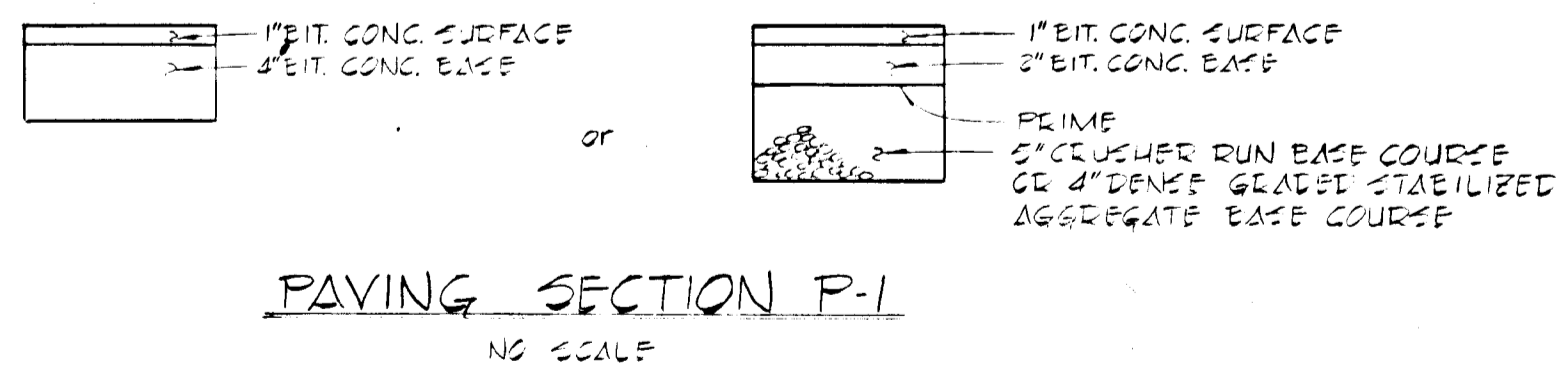
- 1) A MINIMUM OF 24 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY OFFICE OF INSPECTIONS AND PERMITS PRIOR TO THE START OF ANY CONSTRUCTION (992-2437).
- 2) ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
- 3) FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PER-METER SLOPES AND ALL SLOPES GREATER THAN 3:1, b) 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- 4) ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1983 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDINGS (SEC. 51) SOO (SEC. 54), TEMPORARY SEEDING (SEC. 50) AND MULCHING (SEC. 52). TEMPORARY STABILIZATION WITH MULCH ALONE CAN ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.
- 5) ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THEIR REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 6) SITE ANALYSIS:

TOTAL AREA OF SITE	50,011	ACRES
AREA DISTURBED	1,428	ACRES
AREA TO BE ROOFED OR PAVED	6,034	ACRES
AREA TO BE VEGETATIVELY STABILIZED	1,214	ACRES
TOTAL CUT		CU. YDS.
TOTAL FILL		CU. YDS.
OFFSITE WASTE/BORROW AREA LOCATION		CU. YDS.
- 7) ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE.
- 8) ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED, IF DEEMED NECESSARY BY THE HOWARD COUNTY DPW SEDIMENT CONTROL INSPECTOR.



- CONSTRUCTION SEQUENCE:**
1. OBTAIN GRADING PERMIT.
 2. GRADE SHOULDER AND DITCH ALONG BRIGHTON DAM ROAD.
 3. CONSTRUCT RESIDENTIAL DRIVEWAY ENTRANCES.
 4. STABILIZE DITCH AND ANY GRADED AREAS WITH PERMANENT SEEDING.
 5. THE CONTRACTOR SHALL PLACE STRAW BALE DIKES OR SILT FENCE ALONG BRIGHTON DAM ROAD DOWNGRADE OF ANY DISTURBED AREA AT THE END OF EACH WORKING DAY.
 6. DURING CONSTRUCTION AND AFTER EACH RAINFALL, THE CONTRACTOR SHALL INSPECT AND PROVIDE NECESSARY MAINTENANCE ON THE SEDIMENT AND EROSION CONTROL STRUCTURES SHOWN HEREON.
 7. ALL DISTURBED AREAS DUE TO REMOVAL OF SEDIMENT CONTROL MEASURES SHALL BE GRADED AND STABILIZED BY PERMANENT SEEDING.
 8. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN: a) 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, SWALES, DITCH PERIMETER SLOPES AND ALL SLOPES GREATER THAN 3:1; b) 14 DAYS FOR ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.

- CONSTRUCTION SPECIFICATION FOR ST-IV**
1. The swale sediment trap shall be constructed in accordance with the dimensions provided on the design drawings or sized to provide the minimum storage necessary (800 cubic feet of storage for each acre of drainage area).
 2. Sediment shall be removed and trap restored to its original dimension when the sediment has accumulated to 1/2 the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
 3. The structure shall be inspected after each rain and repairs made as needed.
 4. Construction operations shall be carried out in such a manner that erosion and water pollution shall be minimized.
 5. The sediment trap shall be removed and area stabilized when the contributory drainage area has been properly stabilized.
 6. The swale sediment trap will be properly backfilled and the swale or ditch reconstructed.



STRUCTURE	AR	P	R	R25	S	S4	n	Qct	V4p	d	W	EL ELEVATION	MIN	b
S-1	2.00	258	0.018	0.04	1.0	0.014	0.04	1033	283	0.03	6"	6"	6"	9"
S-5	1.10	279	0.014	0.04	0.7	0.027	0.04	302	371	0.40	2"	6"	6"	9"



FISHER, COLLINS, AND CARTER, INC.
 CIVIL ENGINEERS AND LAND SURVEYORS
 8388 COURT AVENUE
 ELLICOTT CITY, MARYLAND 21043
 (301) 461-2855

OWNER AND DEVELOPER
 THE BRIGHTON GROUP
 SUITE 304
 5570 STERRETT PLACE
 COLUMBIA, MARYLAND 21044

**ROAD SECTION, DETAILS AND
 SEDIMENT CONTROL NOTES**
WATERFORD
 SECTION TWO
 LOTS 5-11
 5TH ELECTION DISTRICT
 HOWARD COUNTY, MARYLAND